

CATALOGUE

OF THE

University of North Carolina

AT

CHAPEL HILL

NINETY-SIXTH YEAR

1890-1891.

TRUSTEES.

The government of the University is under the control of a Board of eighty Trustees, elected by the joint vote of the General Assembly, and the Superintendent of Public Instruction, who is an *ex officio* member. Of the eighty, one-fourth go out of office, and their places are filled every two years. Although not so required by law, in practice they are distributed among the Congressional Districts. The Board meets regularly twice a year; in the winter at Raleigh, on a day selected by the Governor, and in the summer at Chapel Hill, during Commencement week. The former is called the Annual Meeting. The Governor is *ex officio* president of the Board. Ten constitute a quorum. During the recess of the Board, an Executive Committee of nine Trustees, elected at the annual meeting, exercise all the powers of the Board of Trustees, except those specially reserved.

PRESIDENT:

HIS EXCELLENCY THOMAS M. HOLT.

SECRETARY AND TREASURER:

HON. RICHARD H. BATTLE, *pro tempore*.

MEMBERS OF THE BOARD:

HON. S. M. FINGER, Superintendent of Public Instruction, <i>ex officio</i> .			
HON. KEMP P. BATTLE, LL.D. Orange	*November 30, 1891.		
JAMES S. BATTLE, Esq. Warren	"	"	"
ROBERT L. BEALL, M. D. Caldwell	"	"	"
G. SAMUEL BRADSHAW, Esq. Randolph	"	"	"
Col. CHARLES W. BROADFOOT Cumberland	"	"	"
HON. FABIVS H. BUSBEE	Wake	"	"

*Term of office expires.

ERRATA.

On pages 7 and 9, James V. Lewis should be Joseph V. Lewis.

On page 17, under Honors should be added, Classical Oration, Howard Burton Shaw, Tarboro.

On page 22, under Annual Expenses should be inserted Gymnasium Fee, \$2.50.

On page 33, line 18, "The Modern Language chosen must be continued in the second year," should be omitted.

On page 41, Horace H. Williams should be Henry Horace Williams.

On page 51, for Hugh S. Miller write Hugh L. Miller.

On page 68, to Branch Associations add: Asheville, Col. John D. Cameron, President; Rev. J. L. Carroll, D. D., Vice-President; Chas. A. Webb, Secretary and Treasurer.



Col. BENEHAN CAMERON	Durham	*November 30, 1891.
Maj. JOHN D. CAMERON	Buncombe	" " "
JOHN W. FRIES, Esq.	Forsyth	" " "
Hon. BENJAMIN F. GRADY	Duplin	" " "
WM. J. HAWKINS, M. D.	Wake	" " "
Hon. THOS. S. KENAN	Wilson	" " "
WM. N. MEBANE, Esq.	Rockingham	" " "
A. HAYWOOD MERRITT, Esq.	Chatham	" " "
J. EDWIN MOORE, Esq.	Martin	" " "
Col. JAMES T. MOREHEAD	Guilford	" " "
JAMES D. MURPHY, Esq.	Pitt	" " "
†Hon. WM. L. SAUNDERS, LL.D.	Wake	" " "
Hon. ZEBULON B. VANCE, LL.D.	Mecklenburg	" " "
Maj. JAMES W. WILSON	Burke	" " "
Col. A. B. ANDREWS	Wake	*November 30, 1893.
Hon. RICHARD H. BATTLE	Wake	" " "
Col. JOSEPH A. BITTING	Forsyth	" " "
JULIAN S. CARR, Esq.	Durham	" " "
WM. H. DAY, Esq.	Halifax	" " "
Col. JOHN M. GALLAWAY	Rockingham	" " "
WM. E. HILL, Esq.	Duplin	" " "
JAMES H. HORNER, Esq.	Granville	" " "
Hon. GEORGE HOWARD	Edgecombe	" " "
Maj. A. M. LEWIS	Wake	" " "
Hon. MONTFORD MCGEE	Person	" " "
THOMAS W. MASON, Esq.	Northampton	" " "
Col. PAUL B. MEANS	Cabarrus	" " "
LEE S. OVERMAN, Esq.	Rowan	" " "
JAMES PARKER, Esq.	Gates	" " "
Hon. CHARLES PRICE	Rowan	" " "
Rev. THOS. H. PRITCHARD, D. D.	New Hanover	" " "
Hon. JOHN C. SCARBOROUGH	Johnston	" " "
JOHN E. WOODARD, Esq.	Wilson	" " "
DAVID G. WORTH, Esq.	New Hanover	" " "
CHARLES B. AYCOCK, Esq.	Wayne	*November 30, 1895.
Rev. A. D. BETTS	N. C. Conference	" " "
Col. W. H. S. BURGWYN	Vance	" " "
CHARLES A. COOK, Esq.	Warren	" " "
JOHN D. CURRIE, Esq.	Bladen	" " "
Hon. GEORGE DAVIS, LL.D.	New Hanover	" " "
Hon. W. T. FAIRCLOTH	Wayne	" " "
Hon. JOHN A. GILMER	Guilford	" " "
Maj. JOHN W. GRAHAM	Orange	" " "

*Term of office expires.

†Dead.

H. A. GUDGER, Esq.	Buncombe	*November 30, 1895.
Hon. THOS. M. HOLT	Alamance	" " "
WM. JOHNSTON, Esq.	Mecklenburg	" " "
Hon. A. LEAZAR	Iredell	" " "
Rev. W. S. LONG	Alamance	" " "
CHAS. D. McIVER, Esq.	Wake	" " "
HAMILTON C. McMILLAN, Esq.	Robeson	" " "
Hon. JOHN MANNING, LL.D.	Orange	" " "
ROBERT B. PEEBLES, Esq.	Northampton	" " "
SOLOMON C. WEILL, Esq.	New Hanover	" " "
FRANK D. WINSTON, Esq.	Bertie	" " "
Rev. W. S. BLACK, D. D.	Granville	*November 30, 1897.
Hon. C. M. COOKE	Franklin	" " "
Rev. J. H. CORDON, D.D.	N. C. Conference	" " "
Hon. RUFUS A. DOUGHTON	Alleghany	" " "
Hon. T. J. JARVIS, LL.D.	Pitt	" " "
Col. H. C. JONES	Mecklenburg	" " "
Rev. NEILL MCKAY, D. D.	Harnett	" " "
PATRICK L. MURPHY, M. D.	Burke	" " "
WM. J. PEELE, Esq.	Wake	" " "
WM. D. PRUDEN, Esq.	Chowan	" " "
WM. C. RIDDICK, Esq.	Halifax	" " "
ROBERT W. SCOTT, Esq.	Alamance	" " "
FRANK S. SPRUILL, Esq.	Franklin	" " "
Hon. WALTER L. STEELE	Richmond	" " "
Rev. J. L. STEWART	Sanipson	" " "
ISAAC R. STRAYHORN, Esq.	Orange	" " "
Col. S. MCD. TATE	Burke	" " "
GEORGE N. THOMPSON, Esq.	Caswell	" " "
JAMES W. TODD, Esq.	Ashe	" " "
H. D. WILLIAMSON, M. D.	Columbus	" " "

*Term of office expires.

EXECUTIVE COMMITTEE:

HIS EXCELLENCY THOMAS M. HOLT, CHAIRMAN *ex officio*.

COL. A. B. ANDREWS,
HON. RICHARD H. BATTLE,
JULIAN S. CARR, Esq.,
REV. J. H. CORDON, D. D.,
HON. S. M. FINGER,
MAJ. JOHN W. GRAHAM,
HON. THOMAS S. KENAN,
*HON. W. L. SAUNDERS,
HON. JOHN C. SCARBOROUGH.

COMMITTEE OF VISITATION:

A Special Committee of Visitation of Seven Trustees inspect annually, in person, and report on the working of the institution.

MEMBERS OF THE COMMITTEE FOR 1891.

HON. W. L. STEELE, CHAIRMAN.
HON. C. M. COOKE,
HON. S. M. FINGER,
HON. JOHN A. GILMER,
PROF. C. D. McIVER,
A. H. MERRITT, Esq.,
HON. J. C. SCARBOROUGH.

UNIVERSITY OF NORTH CAROLINA.

*HON. KEMP P. BATTLE, LL.D.,
PRESIDENT.

FACULTY:

*HON. KEMP P. BATTLE, LL.D.,
Professor of Political Economy, Constitutional and International Law.

GEORGE TAYLOE WINSTON, A. M., LL.D.,
Professor of the Latin Language and Literature.

FRANCIS PRESTON VENABLE, PH. D.,
Professor of General and Analytical Chemistry.

*JOSEPH AUSTIN HOLMES, B. S., F. G. S. A.,
Professor of Geology and Natural History.

JOSHUA WALKER GORE, C. E.,
Professor of Natural Philosophy.

HON. JOHN MANNING, LL.D.,
Professor of Law.

REV. THOMAS HUME, D. D., LL.D.,
Professor of the English Language and Literature.

WALTER D. TOY, M. A.,
Professor of Modern Languages.

EBEN ALEXANDER, PH. D.,
Professor of the Greek Language and Literature.

WILLIAM CAIN., C. E.,
Professor of Mathematics and Engineering.

RICHARD H. WHITEHEAD, M. D.,
Professor of Anatomy, Physiology and Materia Medica.

REV. HENRY HORACE WILLIAMS, A. M., B. D.,
Professor of Mental and Moral Science.

HON. KEMP P. BATTLE, LL.D.,
Professor of History.

*Resigned.

INSTRUCTORS:

GEORGE H. CLAFLIN, C. E.,

Instructor in Mathematics, Drawing and Engineering.

HUGH L. MILLER, PH. B.,

Assistant in Chemical Laboratory.

WILLIAM M. LITTLE, A. B.,

Instructor in English.

SHEPARD BRYAN,

Instructor in Latin.

JAMES V. LEWIS,

Instructor in Natural History.

WILLIAM L. SPOON,

Assistant in Physical Laboratory.

OFFICERS:

WALTER D. TOY,

Secretary.

VICTOR S. BRYANT,

Librarian.

J. W. GORE,

Registrar.

W. T. PATTERSON,

Bursar.

STUDENTS, 1890-'91.

POST-GRADUATE STUDENTS.

BRYANT, VICTOR SILAS	-----Law	-----Pineville.
	Ph. B., (Univ. of N. C., '90)	
EURE, MILLS ROBERTS	-----Law	-----Norfolk, Va.
	A. B., (Univ. of N. C., '89.)	
FOGARTIE, Rev. JAMES EDWARD	Eng., Greek; Philosophy	Chapel Hill.
	A. B., (Davidson College, '74.)	
HUGHES, Rev. SAMUEL MOSES	-----English	-----Chapel Hill.
	A. M., (Furman Univ., '87.)	
JOHNSTON, HENRY	-----Law	-----Tarboro.
	A. B., (Univ. of N. C., '90.)	
LITTLE, WILLIAM MYERS	-----Law	-----Little's Mills.
	A. B., (Univ. of N. C., '88.)	
MCGEEHEE, LUCIUS POLK	-----Law	-----Raleigh.
	A. B., (Univ. of N. C., '87.)	
MICHAEL, WILLIAM H	-----Law	-----West Va.
	A. M., (Univ. of West. Va.)	
MILLER, HUGH LEE	-----Chemistry, Geology, Physics	-----Goldsboro.
	Ph. B., (Univ. of N. C., '90.)	
PALMER, MALVERN HILL	-----Law	-----Greenback.
	Ph. B., (Univ. of N. C., '88.)	
PATTERSON, GILBERT BROWN	-----Law	-----Shoe Heel.
	A. B., (Univ. of N. C., '86.)	
PHILIPS, JAMES JONES	-----Medicine	-----Tarboro.
	A. B., (Univ. of N. C., '90.)	
ROBERSON, WILLIAM STONE	-----Law	-----Chapel Hill.
	A. B., (Univ. of N. C., '89.)	
SHAW, HOWARD BURTON	-----Engineering	-----Tarboro.
	A. B., (Univ. of N. C., '90.)	
STRONACH, ALEXANDER	-----Law	-----Raleigh.
	Ph. B., (Univ. of N. C., '89.)	

FOURTH YEAR STUDENTS—(SENIORS).

ANDREWS, WILLIAM JOHNSTON	Cl.	Raleigh.
ASHE, WILLIAM WILLARD	Ph.	Raleigh.
BALL, MCCORD WRIGHT	Ph.	Greensboro.
BATCHELOR, FRANCIS HOWARD	Cl.	Raleigh.
BRYAN, SHEPARD	Cl.	New Berne.
COLLINS, PLATO	Ph.	Kinston.
CUNINGGIM, JESSE LEE	Cl.	Chapel Hill.
CURRIE, GEORGE HENDON	Lit.	Clarkton.
DALRYMPLE, PALMER	Cl.	Jonesboro.
DAVIES, WILLIAM WATKINS, Jr.	Ph.	Drapersville, Va.
EASON, ROBERT RANSOM	Ph.	Selma.
FLEMING, JOHN MARTIN	Cl.	Raleigh.
GREEN, BENJAMIN THORP	Ph.	Franklinton.
GRAHAM, GEORGE MORDECAI	Ph.	Hillsboro.
GRAHAM, PAUL CAMERON	Ph.	Hillsboro.
LEWIS, JAMES VOLNEY	Sc. and Eng.	Darlington.
MCKETHAN, EDWIN ROBESON	Cl.	Fayetteville.
MANGUM, CHARLES STAPLES	Cl.	Chapel Hill.
MOREHEAD, JOHN MOTLEY	Sc.	Leaksville.
PATTERSON, ANDREW HENRY	Ph. and Eng.	Salem.
RANSOM, GEORGE	Ph.	Weldon.
SPOON, WILLIAM LUTHER	Sc. and Eng.	Rock Creek.
THOMPSON, SEYMOUR COLUMBUS	Ph.	Cedar Cliff.
WILLS, WILLIAM HENRY	Cl.	Greensboro.

THIRD YEAR STUDENTS—(JUNIORS).

ALLEN, WILLIAM MARSHALL	Sc.	Wadesboro.
BENNETT, CRAWFORD DUNLAP	Ph.	Norwood.
BUIE, WILLIAM DOUGLAS	Cl.	Clarkton.
BUSBEE, PERRIN	Ph.	Raleigh.
CHEEK, JOHN MORGAN	Cl.	Sparta.
CONNOR, GEORGE WHITFIELD	Cl.	Wilson.
CROWELL, GEORGE HENRY	Ph.	Bilesville.
DAVIS, SAMUEL LEE	Ph.	Sawyersville.
EDWARDS, ARTHUR JOSEPH	Sc.	Winston.
FERGUSON, HERBERT REEVES	Ph.	Waynesville.
FOUST, THOMAS ROSWELL	Eng.	Graham.
GATLING, BART MOORE	Cl.	Raleigh.
HAMLIN, HUBERT CHESLEY	Ph.	Winston.
HARVEY, CHARLES FELIX	Ph.	Kinston.
HUGGINS, WILLIAM SLOAN	Lit.	Wilmington.
HUNTER, RICHARD BENJAMIN	Eng.	Brinkleyville.

JOHNSTON, RICHARD HALL	Ph.	Tarboro.
MEBANE, FRANK CARTER	Cl.	Madison.
PEARSALL, MATHEW JAMES	Sc.	Warsaw.
ROLLINS, WALLACE EUGENE	Cl.	Asheville.
WILLCOX, FREDERICK LEROY	Cl.	Carbonton.
WINBORNE, PETER PARKER	Cl.	Barnitz.

SECOND YEAR STUDENTS—(SOPHOMORES).

ALBRITTON, JAMES ASHBY	Ph.	Snow Hill.
ANDREWS, ALEXANDER BOYD, Jr.	Cl.	Raleigh.
ARGO, FORDYCE HUBBARD	Lit.	Raleigh.
ASHE, SAMUEL ACOURT, Jr.	Ph.	Raleigh.
AUSTIN, SAMUEL FRANCIS	Cl.	Clayton.
BARNARD, ALFRED SMITH	Ph.	Danville, Va.
BATTLE, EDMUND STRUDWICK	Cl.	Raleigh.
BIGGS, JAMES CRAWFORD	Cl.	Oxford.
BOYDEN, VICTOR HUGO	Ph.	Salisbury.
BYNUM, WILLIAM PRESTON	Cl.	Charlotte.
CARTER, HENRY WALTON	Ph.	Fairfield.
COUCH, WILLIE CARLTON	Lit.	Durham.
ELLER, FRANKLIN PLATO	Ph.	Berlin.
ELLIS, ALEXANDER CASWELL	Cl.	Louisburg.
FULLER, CLAUDE STOKES	Lit.	Laurens, S. C.
GAITHER, JAMES FRIERSON	Sc.	Salisbury.
GILMER, JOHN ARTHUR, Jr.	Lit.	Greensboro.
HAMER, DOUGLAS	Lit.	Laurinburg.
HARDING, FORDYCE CUNINGGIM	Ph.	Greenville.
HOKE, MICHAEL	Ph.	Raleigh.
JONES, JAMES ARCHIBALD	Cl.	Clayton.
JONES, KENNETH ANDERSON	Cl.	Carbonton.
JONES, LAWRENCE O'BRIEN BRANCH	Ph.	Durham.
JONES, WYLIE STREET	Lit.	Goldsboro.
KAPP, JAMES LYNN	Ph.	Winston.
KAPP, THOMAS EUGENE	Sc.	Winston.
KOONCE, ALEXANDER HAMILTON	Cl.	Richlands.
LEHMAN, EUGENE WESLEY	Lit.	Bethania.
MCMICHAEL, CHARLES OBED	Lit.	Summerfield.
MOYE, ELBERT ALFRED, Jr.	Ph.	Greenville.
PESCHAU, GEORGE LUDWIG	Lit.	Wilmington.
POE, THOMAS GLENN	Cl.	Gulf.
PUGH, JAMES THOMAS	Cl.	Morrisville.
RONDTHALER, HOWARD	Ph.	Salem.
SELLARS, JOSEPH BASON	Ph.	Haw Hiver.
SNOW, WILLIAM BOYLAN	Cl.	Raleigh.

STRONACH, JOHN BARTON	-----Lit.	-----Raleigh.
THORNTON, FRANK WASHINGTON Jr.	-----Lit.	-----Fayetteville.
TOMS, CHARLES FRENCH	-----Ph.	-----Hendersonville.
TOY, THOMAS DALLAM	-----Lit.	-----New York.
WALSER, ZENOBIAN ILMER	-----Ph.	-----Yadkin College.
WARREN, WILLIAM YOUNG, Jr.	-----Ph.	-----Edenton.
WATLINGTON, JOHN FRANCIS	-----Ph.	-----Reidsville.
WHITLOCK, VICTOR EMMANUEL	-----Ph.	-----Asheville.
WILLARD, EDWARD PAYSON	-----Ph.	-----Wilmington.
WYCHE, BENJAMIN	-----Sc.	-----Chapel Hill.
WYCHE, RICHARD	-----Lit.	-----Chapel Hill.

FIRST YEAR STUDENTS—(FRESHMEN).

BARNES, LESLIE EDWIN	-----Cl.	-----Wilson.
BATTLE, KEMP PLUMMER, Jr.	-----Ph.	-----Lilesville.
BELLAMY, JOHN DILLARD, Jr.	-----Cl.	-----Wilmington.
BINGHAM, HERBERT	-----Cl.	-----Bingham School.
BINGHAM, WILLIAM	-----Cl.	-----Bingham School.
BONITZ, WALTER ADAM	-----Lit.	-----Wilmington.
BRADLEY, RUFUS	-----Lit.	-----Jackson.
BRAWLEY, ESPY WATTS	-----Cl.	-----Mooresville.
BROWN, THOMAS WESTMAN	-----Ph.	-----Asheville.
BUTLER, JOHN ERASTUS	-----Nor.	-----Maitland.
CARTER, CHARLES WILLIAM	-----Ph.	-----Fairfield.
CHERRY, MARCUS CICERO S., Jr.	-----Ph.	-----Bethel.
EDWARDS, JOHN WILLIAM	-----Nor.	-----Dudley.
GILMER, JOHN LASH	-----Lit.	-----Winston.
GRAY, BOWMAN	-----Lit.	-----Winston.
GUTHRIE, WILLIAM BROOKS	-----Ph.	-----Durham.
HARDING, WILLIAM FREDERICK	-----Ph.	-----Greenville.
HENDREN, WILLIAM MAYHEW	-----Ph.	-----Winston.
HESTER, JOSEPH FAIRFIELD	-----Lit.	-----Murphy.
HICKERSON, LYTLE NOWLEN	-----Ph.	-----Ronda.
HUTCHINS, PAUL SHERROD	-----Sc.	-----Chapel Hill.
HUTCHINS, WILLIAM RHODES	-----Sc.	-----Chapel Hill.
JOHNSTON, EUGENE	-----Ph.	-----Littleton.
KIRKLAND, WILLIAM EDWARD	-----Cl.	-----Blackwood.
LEAK, THOMAS CRAWFORD, Jr.	-----Ph.	-----Rockingham.
LEE, THOMAS BAILEY	-----Cl.	-----Mocksville.
LITTLE, GEORGE ROSCOE	-----Ph.	-----Bethel.
LONG, NOVES	-----Lit.	-----Chapel Hill.
OLDHAM, JESSE MORROW	-----Cl.	-----Oaks.
PEARCE, PEREER PENDLETON	-----Nor.	-----Westfield.
PRITCHARD, FRED BEALE	-----Cl.	-----Chapel Hill.

ROBERSON, CHARLES	Cl.	Chapel Hill.
ROLLINS, THOMAS SCOTT	Ph.	Asheville.
SAWYER, JAMES	Ph.	Asheville.
SMITH, THOMAS CARLISLE, Jr.	Ph.	Asheville.
SNIPES, EUGENE MALCOLM	Ph.	Lambsville.
STEELE, ROBERT THOMAS STEPHEN	Ph.	Rockingham.
THOMPSON, ROBERT LOVE	Ph.	Raleigh.
TOMS, NATHAN	Ph.	Hertford.
WHEDBEE, HARRY WEST	Ph.	Hertford.
WILLIAMS, WILLIE HARRY, Jr.	Cl.	Newton.
WILSON, THOMAS JAMES	Cl.	Chapel Hill.
WOOTEN, PRESTON	Ph.	LaGrange.
YATES, JOSEPH WALKER	Lit.	Wilmington.

OPTIONAL STUDENTS.

ALSTON, HOWARD	2d year	Littleton.
HOLT, WILLIAM EDWARD, Jr.	1st year	Charlotte.
JACKSON, MARSHALL RANSOM	1st year	Hawley's Store.
KENAN, OWEN HILL	1st year	Kenansville.
KENAN, WILLIAM RAND, Jr.	1st year	Wilmington.
KING, FRANKLIN BREVARD	1st year	Sweet Home.
KORNEGAY, DAVID ROBERT	2d year	Seven Springs.
LANGLEY, VERNON CARLISLE	1st year	Toisnot.
MASSEY, JAMES ANDREW	1st year	Chapel Hill.
NUNN, ROSCOE	1st year	New Berne.
PEEBLES, CALVERT GOOSLEY	2d year	Jackson.
REDWINE, ROBERT BURWELL	2d year	Wolfsville.
SANDLIN, DAVID ELLIS Jr.	1st year	Richland.

STUDENTS IN LAW.

BAILEY, WILLIAM STATEN	Williamston.
BLOUNT, SAMUEL MASTERS	Washington.
BODENHAMER, JAMES M.	Dobson.
BRIDGERS, JAMES HARRY	Henderson.
BRYANT, VICTOR SILAS	Pineville.
BURROUGHS, AUGUSTUS	Williamston.
COOKE, PERCY	Lewisburg.
CRAWFORD, WILLIAM THOMAS	Waynesville.
CROWELL, RUFUS A.	Bilesville.
EURE, MILLS ROBERTS	Norfolk, Va.
GREGORY, ALPHONSO LINWOOD	New Berne.
HARRIS, FRANK ROSCOE	Seaboard.

HEILIG, ALBERT S.	Salisbury.
HENDREN, JOSEPH FLANNER	Winston.
HUMPHREYS, JOHN DANIEL	Bason.
JOHNSTON, HENRY	Tarboro.
LAWRENCE, LLOYD JENNINGS	Murfreesboro.
LITTLE, WILLIAM MYERS	Little's Mills.
LONG, WILLIAM HENRY	Knoxville, Tenn.
MARTIN, EDWIN WRAY	Little Rock, Ark.
MCGEHEE, LUCIUS POLK	Raleigh.
MCLEAN, ANGUS WILTON	Lumberton.
MICHAEL, WILLIAM H.	West Virginia.
MILAM, JAMES HENRY	Greenback.
PALMER, MALVERN HILL	Greenback.
PARKER, HERSEY BAYLIES, Jr.	Como.
PATTERSON, GILBERT BROWN	Maxton.
PEEBLES, CALVERT GOOSLEY	Jackson.
REDWINE, ROBERT BURWELL	Wolfsville.
ROBERSON, WILLIAM STONE	Chapel Hill.
SCOTT, JAMES GRAHAM	Jacksonville.
SMITH, JOHN WAITES	Nolls.
STRONACH, ALEXANDER	Raleigh.
WILLIAMS, ALBERT SIDNEY	Wilmington.
WILLIAMS, ELLIS CULPEPPER	Monroe.

STUDENTS IN MEDICINE.

AYRES, WILLIAM CLEARBORNE	Nichols, S. C.
BECKWITH, DANIEL GREEN	Ascend.
DUGUID, JOSEPH WEINSTEIN	New Berne.
HATHCOCK, THOMAS ALEXANDER, Jr.	Norwood.
JONES, ROBERT DUVAL	New Berne.
MCGOUGAN, JAMES VANCE	Lumber Ridge.
MCKENZIE, WILLIAM WHITE	Salisbury.
MORRIS, LEWIS COLEMAN	Montpelier, Va.
NORMENT, WILLIAM BLOUNT	Lumberton.
PHILIPS, JAMES JONES	Tarboro.

SUMMARY.

Post-Graduate Students.....	15
Fourth Year Students	24
Third Year Students.....	22
Second Year Students	47
First Year Students.....	44
Optional Students.....	13
Law Students	35
Medical Students.....	10
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	210
Names counted twice.....	13
	<hr/>
Total	197

PROGRAMME OF COMMENCEMENT.

JUNE, 1890.

JUNE 1. BACCALAUREATE SERMON.

REV. ROBERT STRANGE.

JUNE 4. ALUMNI MEETING.

Presentation of Tablet in Memory of Professor CHARLES PHILLIPS, by the Trustees. Address by Hon. R. H. BATTLE.

Presentation of Tablet in Memory of Professor R. H. GRAVES, by his former Students. Address by W. J. PEELE, Esq.

ALUMNI ADDRESS : The Necessity of Preserving the Memorials of the Past and of Transmitting to Posterity a Just and Impartial History of North Carolina, by Col. W. H. S. BURGWIN.

REPRESENTATIVES.

Dialectic Society.

R. W. BINGHAM.

J. V. LEWIS,

M. J. PEARSALL,

Philanthropic Society.

SHEPARD BRYAN,

W. E. DARDEN,

JOHN S. THOMAS.

JUNE 5. SENIOR SPEAKERS.

J. D. BELLAMY, Jr.,

V. S. BRYANT,

J. I. FOUST,

J. W. GRAHAM,

R. H. HOLLAND,

HENRY JOHNSTON,

ALEX. MCIVER, Jr.,

H. L. MILLER,

J. B. PHILBECK,

J. J. PHILIPS,

C. A. RANKIN,

W. F. SHAFFNER.

H. B. SHAW.

W. S. SNIPES,

G. V. TILLEY.

SENIOR ESSAYISTS.

GASTON BATTLE,

J. C. BRASWELL,

O. L. SAPP,

P. L. WOODARD.

HONORARY DEGREES CONFERRED.

DOCTORS OF LAW (LL.D.).

JUDGE WALTER CLARK	North Carolina.
THOMAS F. WOOD, M. D.	North Carolina.
HON. HANNIS TAYLOR	Alabama.
HON. ZEBULON B. VANCE	North Carolina.
JOHN S. LONG, Esq.	North Carolina.

DOCTORS OF DIVINITY (D. D.).

REV. LEWIS H. REID	Connecticut.
REV. FRANK L. REID	North Carolina.
REV. JOSEPH B. CHESHIRE, JR.	North Carolina.
REV. JAMES H. CORDON	North Carolina.

DEGREES CONFERRED IN COURSE.

BACHELORS OF ARTS (A. B.).

BELLAMY, JOHN DILLARD	Wilmington.
GRAHAM, JOHN WOOTEN	Keyser.
HOLLAND, RALPH HERSCHELL	Charlotte.
JOHNSTON, HENRY	Tarboro.
MCIVER, ALEXANDER, JR.	Pittsboro.
PHILBECK, JOSEPH BEATTIE	Shelby.
PHILIPS, JAMES JONES	Tarboro.
RANKIN, CHARLES ALEXANDER	Fayetteville.
SHAW, HOWARD BURTON	Tarboro.

BACHELORS OF PHILOSOPHY (Ph. B.).

BATTLE, GASTON	Rocky Mount.
BRYANT, VICTOR SILAS	Pineville.
FOUST, JULIUS ISAAC	Graham.
MILLER, HUGH LEE	Goldsboro.
SAPP, OSCAR LAMAY	Kernersville.
SHAFFNER, WILLIAM FRANCIS	Salem.
SNIPES, WILLIAM SEATON	Lambsville.
TILLEY, GEORGE HINTON VANCE	Chapel Hill.

BACHELORS OF SCIENCE (B. S.).

BRASWELL, JAMES CRAIG-----Battleboro.
 WOODARD, PAUL LEE-----Black Creek.

MASTER OF ARTS (A. M.).

ST. CLAIR HESTER, A. B.-----Raleigh.

DOCTOR OF PHILOSOPHY (Ph. D.).

WILLIAM JAMES BATTLE, A. M.-----Chapel Hill.

SPECIAL CERTIFICATES.

LATIN.

ALEXANDER McIVER, JR.

GREEK.

F. H. BATCHELOR, J. L. CUNINGGIM, J. M. FLEMING.

CHEMISTRY.

GASTON BATTLE, H. L. MILLER.

NATURAL PHILOSOPHY.

J. I. FOUST.

HONORS.

VALEDICTORY ORATION.

ALEXANDER McIVER, JR-----Pittsboro.

PHILOSOPHICAL ORATION.

VICTOR SILAS BRYANT-----Pineville.

GREEK PRIZE.

FRANK CARTER MEBANE -----Wentworth.

KERR PRIZES IN GEOLOGY.

J. C. BRASWELL-----Battleboro.

P. L. WOODARD -----Black Creek.

REPRESENTATIVE MEDAL.

ROBERT W. BINGHAM-----Bingham School.

MANGUM MEDAL.

HENRY JOHNSTON -----Tarboro.

GENERAL INFORMATION.

HISTORY.

The University of North Carolina was established in obedience to a clause of Section XLI of the Constitution of the State, adopted on the 18th of December, 1776, viz.: "All useful learning shall be duly encouraged and promoted in one or more Universities."

The charter was granted in 1789. The Trustees were among the most distinguished citizens of that day. Samuel Johnston, one of the first Senators of the United States from North Carolina, was chairman. Governor Benjamin Smith was the first benefactor, giving twenty thousand acres of land in Tennessee. The most active worker for the new institution was William Richardson Davie, called the "Father of the University," afterwards Governor and Commissioner to France.

On October 12th, 1793, annually commemorated as "University Day," the corner-stone of the Old East Building was laid. The buildings are now nine in number, with ample dormitories, recitation-rooms, laboratories and public halls, situate in a campus of fifty acres, covered with forest trees, and adjoining over five hundred acres of University woodland.

LOCATION.

Chapel Hill, the seat of the University, is a village of about eight hundred inhabitants, twenty-eight miles north-west of Raleigh.

It is reached by a branch of the North Carolina Rail-

road, from University Junction, a station between Durham and Hillsboro.

Among many sites pressed upon the Trustees, Chapel Hill was chosen because of its central position in the State, its uncommon healthiness, its elevation (over five hundred feet above the sea-level), its fine supply of clear pure water and its charming scenery.

The life of the village is plain, quiet, temperate and refined, offering few temptations to vice or allurements from study.

THE SESSION.

The annual session begins regularly on the first Thursday in September and ends on the first Thursday in June.

The session is divided into two terms by a short intermission at Christmas.

REQUISITES FOR ADMISSION.

As a rule, each matriculate must be sixteen years old; but exceptions may be allowed at the discretion of the Faculty. The following are the subjects for the entrance examination :

LATIN.—Cæsar's Gallic War (5 books), Virgil's *Æneid* (5 books), Cicero's Orations (4), Latin Grammar and Composition (Bingham's Grammar or Gildersleeve's Primer, or the first half of Gildersleeve's Exercise Book with the Grammar). Equivalent amounts from other authors will be accepted. A thorough acquaintance with the forms of declension and conjugation and the general principles of construction is absolutely essential. Slight deficiencies in the amount of reading may be supplied after entering.

GREEK.—Xenophon's *Anabasis* (3 books), simple exercises in translating English into Greek, Greek Grammar (Hadley-Allen or Goodwin), a good knowledge of which is required. Applicants who have not read the entire three books of the *Anabasis*, may, if the rest of

their preparation is satisfactory, make good their deficiency by private study during the first term.

[Applicants for Classical course will be required to exhibit a general acquaintance with Ancient History, Geography and Mythology.]

MATHEMATICS.—*Arithmetic*—The candidate should be able: 1. To perform all fundamental operations and explain them. 2. To explain the subjects of prime numbers, factors, greatest common divisors and least common multiples, and to give the rules and apply them. 3. To perform all operations upon fractions, including decimal fractions and mixed numbers, as well as denominate numbers. Special attention must be given to the reason for the rules. 4. To write out examples with facility in percentage, interest and discount, simple and compound proportion and square root, with an analysis and reason for the methods employed.

Robinson's Practical Arithmetic and Sanford's Higher Arithmetic, or equivalent works, are recommended in preparing students to pass the examination on the foregoing subjects.

Algebra—In Algebra the candidate should be thoroughly prepared in ordinary operations on algebraic numbers (plus and minus quantities), fractions, equations of the first degree involving one or more unknown quantities, ratio and proportion, involution and evolution, and surds down to equations of the second degree.

Taylor's, Newcomb's and Wentworth's Algebras are recommended particularly, because they begin with the conception of plus and minus quantities. Although the requirements are as above, it is better for the student to have thoroughly accomplished the *whole* of a good elementary algebra before entering.

ENGLISH.—English Grammar (Whitney, Bain), Introduction to Rhetoric and Composition (Clark, D. J. Hill, Reed and Kellogg), Outlines of English and American History and Literature (Freeman, Brooke, Gilman). Special attention, it is hoped, will be given to preparation for this department, so that it shall include studies in well-annotated standard authors. Sprague's Irving, Swinton's Studies in Literature (authors of the 19th century), Garnett's Studies in Longfellow, Shakspeare's Julius Cæsar (Rolfe's or Hudson's Edition) are recommended.

Applicants wishing to pursue the Classical course are examined in the above studies. Those desiring to take the Philosophical course are examined in Latin or Greek, according to selection made, Mathematics and English.

For the Scientific course the applicants are examined in Mathematics and English.

Optional students are examined in such of the above as relate to the studies they select.

For admission into advanced classes, applicants will be examined in the studies completed by the classes which they wish to join.

ANNUAL EXPENSES.

The University endeavors to reduce to a *minimum* the necessary expenses of education. The only charges are:

Tuition -----	\$60 00
Annual Fee -----	10 00
Medical Fee -----	5 00
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Total per annum -----	\$75 00

The cost of board, clothing, travelling, books, &c., will depend largely upon each individual. Unfurnished rooms and service are provided by the University. Board may be had at prices ranging from \$8.00 to \$13.00 per month. Furnished rooms, with board, may be had in private families, for a limited number of students, at \$10.00 per month; washing, \$1.00 per month; wood, \$2.00 per cord; books and stationery at New York prices. The entire annual expense need not exceed \$300, and it may be reduced below \$200.

The University fees are required to be paid semi-annually in advance. In special cases time is allowed and students unable to pay may give notes. By a recent act of the Legislature free tuition is offered to candidates for the ministry, sons of ministers, and in the Teacher's course, to young men preparing to teach; but the annual and medical fees

must be paid by every student before he is allowed to register.

The Faculty earnestly recommend parents to deposit necessary funds for the expenses of their sons with W. T. Patterson, Esq., Bursar of the University, a bonded officer, who will safely keep and disburse the same without charge.

MEDICAL ATTENTION.

Free medical attention will be given by the physician in charge of the MEDICAL DEPARTMENT, to every student of the University, all being required to pay a small medical fee at the beginning of each session. Experience shows that this arrangement is the best and cheapest for the student body. By this means each student is relieved of the possible expense of large medical bills in cases of prolonged illness, and parents need not fear lest their sons may not obtain competent medical advice and attention in the beginning of sickness.

DISCIPLINE.

The University aims to secure a discipline based upon manliness and self-respect, and to use discipline as an instrument for developing character.

There is no system of demerits or espionage. The University is not a school for boys. It requires of its students, (1) to use their time properly, (2) to keep out of vice. To this end, every student is expected to attend at least fifteen class exercises weekly, to perform his work faithfully, and to observe order and quiet in and near the buildings during study hours; and students are not allowed to carry or use pistols and other dangerous weapons, or to drink or give to others any intoxicating liquor, or to indulge in hazing or teasing new students, or to absent themselves from their

classes except on necessity, or to leave Chapel Hill unless permitted by the President or Chairman of the Faculty, which permission cannot be granted unless there is likewise permission from parent or guardian.

The laws of the State prohibit the sale of liquor within four miles of Chapel Hill. Every temptation to vice is put away as far as possible.

Students who are wilfully vicious, idle or disorderly are not desired at the University and will not be allowed to remain.

CLASS EXERCISES.

Each student is required to attend at least fifteen class exercises per week. Experience having shown that many students, by attempting too much work, have materially damaged both their health and scholarship, the Faculty will not allow anyone to attend more than eighteen class exercises a week, unless for special reasons and by special permission.

EXAMINATIONS.

In addition to the daily oral examinations on the lesson assigned, or previous lecture, three general written examinations of each class are held during the session; one at the close of the Fall Term, another near the middle of the Spring Term, and the third near the end of the session. These examinations are conducted in writing, and are sufficiently comprehensive and searching to test the student's acquaintance with the subject. In estimating the scholarship for the term, the final examinations count one-third.

REPORTS.

Monthly reports are made to parents or guardians concerning the punctuality and diligence of the students, and detailed reports of scholarship are made at the close of each term.

LITERARY EXERCISES.

In connection with the University are the Dialectic and Philanthropic Literary Societies, to one of which each student is required to attach himself, unless excused for special reasons. The halls of these societies are commodious and elegantly furnished. Each society owns many valuable portraits of distinguished Alumni. Medals are offered by each society for excellence in declamation, essays and debate.

The exercises of these societies deserve to be ranked high among the advantages offered by the University. They afford practice in debating and writing, and familiarize the students with the rules of order governing deliberative assemblies.

LIBRARIES.

The Philanthropic and Dialectic and University Libraries have been consolidated and carefully arranged in Smith Hall. The consolidated library is open five hours daily, except Sundays, for the use of students. It contains more than twenty-five thousand volumes and five thousand pamphlets, illustrating every department of literature and science. Additions are made each year; and the books are used as instruments, not only for the general culture and entertainment of the students, but also for their special training and in the development of their capacity for origi-

nal investigation and higher culture, under the guidance of the professors in the several departments.

READING-ROOM.

The Reading-room, supported by the two Literary Societies and the Faculty, is an important part of the general equipment of the University. Containing sixty-five of the leading American and Foreign magazines, reviews and journals (technical, literary, religious and political), it offers both cultivation and recreation.

It is comfortable and well-lighted, and is open daily from 8 A. M. to 6 P. M.

There is also in the room a Reference Library containing dictionaries, encyclopedias, &c.; and the library under the same roof is within easy reach of those who wish to make further investigation.

THE ELISHA MITCHELL SCIENTIFIC SOCIETY.

This Society for the promotion of scientific study was established in October, 1883. Its regular meetings are held on the second Tuesday of each month during the session. At these meetings papers are read giving the results of original research. The progress made in the various branches of science is also reported upon.

The aim is to stimulate individual workers, and to enable the members to keep up with the growth of science.

The Society is a State Society and includes among its members all scientific workers in the State. The students, as associate members, are allowed all the advantages of the Society.

A semi-annual journal is published, containing accounts of the meetings and all original papers. Nearly one thousand pages have thus been published. This journal is

exchanged for the publications of more than three hundred other learned bodies and scientific societies, and through this means the library of the Society is rapidly growing and will soon be very valuable.

Occasional lectures on popular scientific subjects are delivered by resident members of the Society and lecturers invited from a distance.

SHAKSPERE CLUB.

This Society was organized in November, 1886, for the critical study of Shakspeare and other dramatists. One of the professors presides and prepares the scheme of work. The meetings are held once a month, the third Tuesday night. Occasional public meetings are held. The interest is maintained by carefully prepared papers, addresses and free discussion. Six special lectures have been delivered before the Club. The nucleus of a Shakspeare Library has been formed and additions are made to it from time to time. The class of 1891 has presented to the Club a valuable set of Furness's Variorum Editions of the great plays. Two lectures and reports of the proceedings have been published, and an annual scheme of readings is printed. The scheme for 1891-'92 is here given:

1. KING RICHARD THE SECOND. Shakspeare's Politics. Primogeniture and Parliament. Contrast of Characters. Dispute as to date of composition connected with the Essex Rebellion. Metrical Peculiarities. Marlowe's Edward the Second compared.

SHAKSPERE AND CONTEMPORARY ACTORS.

2. LOVE'S LABORS LOST. Italian and French Influence on English Comedy. Don Armado and Don Quixote. The Pedant Shakspeare. Theory of Culture. His own Education. Types repeated in other Plays.

THE COMEDY OF MANNERS.

3. THE SONNETS.—Recent Literature on this Subject. Mary Fytton. Their Metrical Form compared with the true Italian Sonnet. His Con-

temporaries in this Species of Composition. Are they Autobiographical, Satirical?

THE PASSION PLAY.

4. KING LEAR. The Tragedy of Passion. Older Versions of the Story. Shakspeare's Sub-Plot. His *finale* peculiar. Tate's inartistic version.

MALE AND FEMALE ROLES IN A DRAMA.

5. PSEUDO-SHAKSPERIAN PLAYS. The Merry Devil of Edmonton. Edward the Third. Arden of Feversham.

THE MODERN FARCE.

6. IBSEN. Adapting Foreign Plays. Dramatization of Novels.

CONCORDANCES OR INDEXES TO SHAKSPERE.

7. Browning as a Dramatic Poet. His reproduction of Classic Subjects. Tennyson's Harold.

THE NORTH CAROLINA HISTORICAL SOCIETY.

This Society is engaged in the study of our State history and the collection of documents and materials for its illustration. Meetings, as a rule, are held monthly. At these meetings historical papers are read, and discussion had.

UNIVERSITY DAY.

University Day is on the 12th day of October of each year.

The annual address for 1890 was by Mr. J. G. Joynes, Superintendent of the Goldsboro Graded Schools.

THE UNIVERSITY MAGAZINE

Is published six times during the year, under the auspices of the Philanthropic and Dialectic Societies. Its objects are: To encourage the students to independent literary work; to furnish a review of University matters; to chronicle the proceedings of the literary, scientific and historical

organizations, including the publication of important papers presented at their meetings; to record items of news about the University Alumni and students. Each number contains matter of importance to all who are interested in the University, besides much that is attractive to the general reader.

RELIGIOUS SERVICES.

The students are expected to attend the Sunday Bible classes, the daily morning prayers in the University chapel, and the Sunday services in the several churches in the village.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

This organization has become a power in influencing the lives of students. Its membership consists of two classes, active and associate. Its aim is to improve young men spiritually, physically, mentally, and this is done through various and recognized lines. Religious work is carried on by its members in the devotional meetings held four times per week, and in personal conversation with fellow-students. Besides this, several workers' training classes are carrying on a systematic study of the Bible with special reference to using it in winning souls.

Physical work will be carried on through a trained Gymnasium Instructor, employed by the Association.

Mental improvement is sought through means of occasional lectures from distinguished men on various subjects not treated in a college course.

The Association has set apart for its use a hall for meetings, and in connection with it a pleasant social parlor. A building fund has been started among the students, and is rapidly growing in amount. All students who are eligible to membership would do well to identify themselves with this work soon after entering the University.

MUSEUMS.

Every scientific department of the University is equipped with a museum of specimens for laboratory work; and besides these working museums there is a large and valuable collection of specimens in botany, geology, mineralogy, zoology and entomology, carefully arranged for exhibition in the UNIVERSITY MUSEUM.

MEDALS AND PRIZES.

MEDAL FOR ORATORY.—The Misses Mangum, of Orange, offer in *memoriam* of their father, Willie P. Mangum, a gold medal as a prize for the best oration at the annual Commencement.

THE MATHEMATICAL PRIZE—Will be awarded to the member of the third (Junior) class in Mathematics who attains the highest proficiency above a certain absolute standard.

THE MORAL SCIENCE MEDAL.—Mr. David G. Worth, of Wilmington, offers a medal for the best scholarship in Moral Science.

THE GREEK PRIZE.—Offered to the member of the Sophomore Greek Class who presents the best rendering into English of selected passages of Greek not previously read.

KERR PRIZE IN GEOLOGY.—Offered in memory of Professor W. C. Kerr to any post-graduate or under-graduate student for special work in the mineralogy or geology of North Carolina.

THE ESSAYISTS' MEDAL.—A gold medal is offered in the department of English Literature to the member of the Senior Class who presents the best essay or thesis on the occasion of his graduation.

THE B. F. MOORE SCHOLARSHIPS.

The late B. F. Moore, of Raleigh, bequeathed \$5,000, the interest of which is to be devoted to paying the tuition of students.

THE DEEMS FUND.

This Fund was instituted by the Rev. Dr. C. F. Deems, pastor of the Church of the Strangers, New York, as a memorial of his son, Lieutenant Theodore Disosway Deems, who was born at Chapel Hill while his father was in the Faculty of the University. It is intended to assist needy students by loans. In 1881 it was greatly enlarged through the munificence of Mr. Wm. H. Vanderbilt. On the 1st of February, 1891, there were notes, the principal of which amounted to \$14,297.53, representing current loans to students. To that date 145 students had been helped by the fund. As payments are made, new loans will be made to applicants who meet the requirements. They must come with good recommendations for character; or, if members of the University, must have demonstrated to the Faculty that they are worthy of assistance. The loans are made at six per cent. interest, on satisfactory security, and for a sufficient length of time to make the payments easy.

THE FRANCIS JONES SMITH FUND.

Miss Mary Ruffin Smith, of Orange, has left a valuable tract of fourteen hundred and thirty acres of land in Chatham county, known as the Jones Grove Tract, the income of which, or of the proceeds if sold, shall be used for the education of such students as the Faculty may designate.

The above name is given to the fund at the request of the testatrix.

UNDER-GRADUATE COURSES OF STUDY.

The Faculty recommends one of the following courses of study:

[The figures in parentheses denote the number of recitations or lectures per week.]

CLASSICAL COURSE.

This leads to the degree of Bachelor of Arts, (A. B.).

FIRST YEAR.

FIRST TERM.—Algebra (4), Latin (4), Greek (4), English (3).

SECOND TERM.—Geometry (4), Latin (4), Greek (4), English (3).

SECOND YEAR.

FIRST TERM.—Trigonometry (3), Latin (3), Greek (3), Chemistry (3), English (1), German, French or History (3).

SECOND TERM.—Analytical Geometry (3), Latin (3), Greek (3), Chemistry (3), English (1), German, French or History (3).

THIRD YEAR.

FIRST TERM.—Physics ($3\frac{1}{2}$), Logic (2), English (2), Greek (2), Elective (6).

SECOND TERM.—Physics ($3\frac{1}{2}$), Logic and Psychology (2), English (2), Greek (2), Elective (6).

FOURTH YEAR.

FIRST TERM.—Political Economy (3), Philosophy (3), Essays and Orations (1), Elective (8).

SECOND TERM.—Philosophy (3), Essays and Orations (1), Elective (11).

ELECTIVE STUDIES.—Latin (2), Latin (3), Greek (3), French (3), French (2), German (3), German (2), English Literature (2), First Anglo-Saxon (2), Second Anglo-Saxon (2), History (3), History (2), Historical Research (1), Philosophy (2), Industrial Chemistry (3), Qualitative Chemical Analysis (2), Quantitative Chemical Analysis (3), Biological Laboratory (2), Physiology (3), Zoology and Botany (3), Mineralogy (3), Geology (3), Advanced Geology (3), Calculus and Analytical Mechanics (4), Mechanics of Engineering (3), Surveying (3), Projection Drawing (3), Astronomy (3), Electrical Engineering (2).

PHILOSOPHICAL COURSE.

This leads to the degree of Bachelor of Philosophy, (Ph. B.).

FIRST YEAR.

FIRST TERM.—Algebra (4), Latin or Greek (4), German or French (3), English (3).

SECOND TERM.—Geometry (4), Latin or Greek (4), German or French (3), English (3).

The modern language chosen must be continued in the second year.

SECOND YEAR.

FIRST TERM.—Trigonometry (3), Latin or Greek (3), Chemistry (3), English (1), Logic (2) or Physiology (3), German, French or History (3).

SECOND TERM.—Analytical Geometry (3), Latin or Greek (3), Chemistry (3), English (1), Psychology (2) or Geology (3), German, French or History (3).

THIRD YEAR.

FIRST TERM.—Physics (3½), Latin or Greek (2), English (2), Logic (2) or Physiology (3), German, French or History (2) or (3), Elective (5).

SECOND TERM.—Physics (3½), Latin or Greek (2), English (2), Psychology (2) or Geology (3), German, French or History (2) or (3), Elective (5).

FOURTH YEAR.

FIRST TERM.—Political Economy (3), Essays and Orations (1), Elective (11).

SECOND TERM.—Astronomy (3), Essays and Orations (1), Elective (11).

[NOTE.—Six hours of Modern Languages must be taken during the course.]

ELECTIVE STUDIES.—Latin (3), Greek (3), French (3), French (2), German (3), German (2), English Literature (2), First Anglo-Saxon (2), Second Anglo-Saxon (2), History (3), History (2), Historical Research (1), Philosophy (3), Philosophy (2), Industrial Chemistry (3), Qualitative Chemical Analysis (2), Quantitative Chemical Analysis (3), Biological Laboratory (2), Zoology and Botany (3), Mineralogy (3), Advanced Botany (3), Advanced Geology (3), Calculus and Analytical Mechanics (4), Mechanics of Engineering (3), Surveying (3), Projection Drawing (3), Electrical Engineering (2).

SCIENTIFIC COURSE.

This leads to the degree of Bachelor of Science, (B. S.).

FIRST YEAR.

FIRST TERM.—Algebra (4), German or French (3), English (3), Biological Laboratory (2), Physiology (3).

SECOND TERM.—Geometry (4), German or French (3), English (3), Biological Laboratory (2), Zoology and Botany (3).

SECOND YEAR.

FIRST TERM.—Trigonometry (3), German or French (3), English (1), Chemistry (3), Qualitative Chemical Analysis (2), History (3).

SECOND TERM.—Analytical Geometry (3), German or French (3), English (1), Chemistry (3), Qualitative Chemical Analysis (2), History (3).

THIRD YEAR.

FIRST TERM.—Physics (3½), Mineralogy (3), English (2), Industrial Chemistry (3), Elective (5).

SECOND TERM.—Physics (3½), Geology (3), English (2), Industrial Chemistry (3), Elective (5).

FOURTH YEAR.

FIRST TERM.—Political Economy (3), Elective (12).

SECOND TERM.—Astronomy (3), Elective (12).

ELECTIVE STUDIES.—French (3), French (2), German (3), German (2), English Literature (2), Essays and Orations (1), History (2), Historical Research (1), Logic and Psychology (2), Philosophy (3), Philosophy (2), Quantitative Chemical Analysis (3), Advanced Botany (3), Advanced Geology (3), Calculus and Analytical Mechanics (4), Mechanics of Engineering (3), Surveying (3), Projection Drawing (3), Electrical Engineering (2).

LITERARY COURSE.

This leads to the degree of Bachelor of Letters, (B. Lit.).

FIRST YEAR.—Algebra and Geometry (4), English (3), Elective (8), (including at least two of the following: Latin, Greek, French, German).

SECOND YEAR.—English (1), History (3), Elective (11), (including at least one of the following: Latin, Greek, French, German).

THIRD YEAR.—English (2), History (2), Elective (12), (including at least one of the following: Latin, Greek, French, German, Anglo-Saxon).

FOURTH YEAR.—English (2), Essays and Orations (1), Elective (12).

ELECTIVE STUDIES.—Latin, Greek, French, German, Anglo-Saxon, Historical Research, Political Economy, Constitutional and International Law, Logic and Psychology, Philosophy, Chemistry, Industrial Chemistry, Qualitative Chemical Analysis, Physiology, Zoology, Botany, Mineralogy, Geology, Surveying, Trigonometry, Analytical Geometry, Physics, Astronomy.

ENGINEERING COURSE.

This leads to the degree of Bachelor of Engineering, (B. E.)

Candidates must have accomplished the first and second years of either the Scientific, Philosophical or Classical Courses.

JUNIOR YEAR.

FIRST TERM.—Calculus (4), Physics ($3\frac{1}{2}$), Mineralogy (3), English (2), Descriptive Geometry (3), Drawing ($1\frac{1}{2}$).

SECOND TERM.—Calculus and Analytic Mechanics (4), Physics ($3\frac{1}{2}$), Geology (3), English (2), Surveying (3), Drawing ($1\frac{1}{2}$).

SENIOR YEAR.

FIRST TERM.—Analytic Mechanics and Strength and Stability of Structures (3), Drawing (2), Electives (10).

SECOND TERM.—Strength and Stability of Structures (3), Drawing (2), Astronomy (3), Electives (7).

ELECTIVE STUDIES.—Advanced Geology (3), Industrial Chemistry (3), Qualitative Chemical Analysis (2), Quantitative Chemical Analysis (3), Electrical Engineering (2), Higher Surveying (2), English Literature (2).

For Course in Law, SEE SCHOOL OF LAW.

For Course in Medicine, SEE SCHOOL OF MEDICINE.

TEACHERS' COURSE.

Special courses, adapted to teachers, are offered in each department of study, beginning each year about February 15th, and continuing three months. No entrance or other examination will be required, except that students electing Latin are required to exhibit a thorough knowledge of declensions and conjugations, and to have read at least three books of Cæsar's Gallic War. There are no charges for tuition. The only fee is one of \$2.50, which includes matriculation, room-rent, servant's hire, &c. The Faculty earnestly recommends that the teachers come at the opening and remain for the full three months.

OPTIONAL COURSES.

The Faculty earnestly advises students to pursue one of the regular courses. But in proper cases they are allowed to choose such studies out of the courses as may be deemed most advantageous, provided they have fifteen class exercises a week, whether lectures, recitations or laboratory practice.

Special groups of studies, extending over one and two years, are recommended by the Faculty to those who are unable to complete one of the full four-year courses, yet desire an education and a training in those studies that will be of great advantage to them in their several professions or stations in life.

An optional course once chosen must be adhered to for the session, unless for special reasons the Faculty allows a change. No student is permitted to take a course not deemed by the Faculty worthy of his time and efforts.

ADVANCED OR POST-GRADUATE INSTRUCTION.

Advanced instruction is now offered in the several departments of the University.

Students who wish to pursue an advanced course of study are received with or without reference to their being candidates for a degree. In all cases the professors must be satisfied that the student is prepared to follow the instruction in the course contemplated.

Candidates for a degree are required to make written application to the Faculty, stating the course they design to pursue. They must also present their diplomas or certificates from the institution with which they have been connected, testifying that they have completed a course corresponding to one of the under-graduate courses of the University.

The method of instruction will vary with the nature of the study, but the general aim will be to encourage students to undertake independent work in some special branch of study, while he is adding to his intellectual culture.

POST-GRADUATE COURSES.

[Applicants for a Master's degree must have completed the course leading to the corresponding Bachelor's degree.]

CLASSICAL COURSE.

For the degree of Master of Arts, (A. M.).

Three studies, pursued for one year, to be selected from the following groups, subject to the condition that two studies may be selected from group 1, but not more than

one from any other group; and that one of the subjects in group 1 shall have been pursued as an Elective in the Under-Graduate Course:

1. Latin, Greek.
2. German, French, English.
3. Political Science, Mental and Moral Science, History.
4. Chemistry, Geology, Natural History.
5. Mathematics, Natural Philosophy.

PHILOSOPHICAL COURSE.

For the degree of Master of Philosophy, (Ph. M.).

Three studies pursued for one year, to be selected from the following groups, subject to the same condition as in CLASSICAL COURSE :

1. Latin, Greek, German, French, English.
2. Political Science, Mental and Moral Science, History.
3. Chemistry, Geology, Natural History.
4. Mathematics, Natural Philosophy.

SCIENTIFIC COURSE.

For the degree of Master of Science, (M. S.).

Three studies, pursued for one year, to be selected from the following groups, subject to the same condition as in CLASSICAL COURSE :

1. Chemistry, Geology, Natural History, Mathematics, Natural Philosophy.
2. Latin, Greek, German, French, English.
3. Political Science, Mental and Moral Science, History.

COURSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY, (PH. D.).

This course requires two years.

For the *first year* the candidate may select any one of the courses offered for a Master's degree (A. M., Ph. M., M. S.).

The *second year* will be devoted to a more extensive study of two of the subjects pursued in the first year.

SPECIAL CERTIFICATES.

A special certificate of graduation in a department (Latin, or Mathematics, or Chemistry, &c.) is awarded, upon application, to any student who attains the required grade.

DEGREES.

BACHELORS' DEGREES.

The degrees of Bachelor of Arts, Bachelor of Philosophy, Bachelor of Science, Bachelor of Letters and Bachelor of Engineering are conferred upon those students who have passed approved examinations on the respective undergraduate courses, already given, leading to those degrees.

The degree of Bachelor of Law is conferred upon those students who have passed approved examinations on Courses (A) and (B), enumerated in the School of Law.

MASTERS' DEGREES.

The degrees of Master of Arts, Master of Philosophy and Master of Science are conferred upon those students who have been accepted as qualified candidates, and have pursued, with residence, the respective post-graduate courses, already given, leading to those degrees, passing satisfactory examinations thereon and submitting a suitable thesis.

DOCTOR OF PHILOSOPHY.

The degree of Doctor of Philosophy is conferred upon those students who have been accepted as qualified candidates, and have pursued, with residence, the post-graduate course prescribed for this degree, passing satisfactory examinations thereon, and submitting a suitable thesis.

LITERARY DEPARTMENT.

*HON. KEMP P. BATTLE, LL.D.,

Professor of Political Economy, Constitutional and International Law.

GEORGE TAYLOE WINSTON, A. M.,

Professor of the Latin Language and Literature.

EBEN ALEXANDER, PH. D.,

Professor of the Greek Language and Literature.

REV. THOMAS HUME, JR., A. M., D. D.,

Professor of the English Language and Literature.

WALTER D. TOY, M. A.,

Professor of Modern Languages.

HORACE H. WILLIAMS, A. M.,

Professor of Mental and Moral Science.

HON. KEMP P. BATTLE, LL.D.,

Professor of History.

SHEPARD BRYAN,

Instructor in Latin.

WILLIAM MYERS LITTLE, A. B.,

Instructor in English.

OUTLINE OF INSTRUCTION.

POLITICAL ECONOMY, CONSTITUTIONAL AND INTERNATIONAL LAW.

President Battle.

UNDER-GRADUATE CLASSES.

I. POLITICAL ECONOMY.

Instruction is given by text-books and lectures for three hours a week for the first term. The lectures are designed to throw light on the great economical questions of the day, such as Banking, Bi-metalism, Protection, Wages, Co-operation, &c.

*Resigned.

2. CONSTITUTIONAL LAW.

Three hours a week for the greater part of the second term of the senior year are given to this study. It is preceded by a short course in the History of American Politics. The lectures give information concerning the History of the Constitution of North Carolina as well as of the United States. The facts and principles of many leading cases, settling the construction of the Constitution of the United States are given, and their connection with American history is pointed out.

3. INTERNATIONAL LAW.

A short course of lectures is given in this department near the close of the second term.

POST-GRADUATE CLASSES.

POLITICAL ECONOMY.

In this class will be studied the works of such authorities as Roscher, Mill, Bagehot, McLeod, &c., and discussions will be required of the great unsettled questions of the Science, such as Banking, Bi-metallism, Protection, &c.

CONSTITUTIONAL LAW.

The subjects studied in this class will be the origin and development of the English Constitution, of the Constitution of the United States and of this State. The political histories of these countries will be carefully read. Considerable attention will be paid to the Roman Law. Such works as those of Hallam, Stubbs, Yonge, Green, Bancroft, Curtis, Von Holst, Hildreth, &c., will be used, and also the opinions of Chief Justice Marshall and other Judges of the Supreme Court in leading cases.

It will be the effort of the instructor so to guide the student that he may have material with which he may intelligently form his own conclusions on the great subjects of Constitutional Law and Political Economy, which as an American citizen it will be his duty to consider.

THE LATIN LANGUAGE AND LITERATURE.

Professor Winston.

The first year's course includes the translation and criticism, mainly grammatical, of Livy (one book) and Cicero (one essay), the study of Latin grammar, frequent practice in writing Latin and the study of the early history of Rome. There are four recitations a week. A brief review is made at the beginning of the year for the benefit of the ill-prepared.

The second year's course includes the translation and criticism of Tacitus (the Germany or the Agricola), Horace (selections) and Suetonius or Pliny the Younger (one or two books). Attention is paid to style as well as to Latin structure, and practice is required in literary criticism. Occasional lectures are given on Roman literature, art, antiquities and social life. The general principles of comparative philology are explained and applied. Practice in composition is kept up, based upon Latin texts. The history of the imperial epoch is studied and criticised. There are three recitations a week. It is a mistake for students to attempt this course until they have mastered that of the preceding year.

The third year's course is devoted to the study of the Latin drama. There are two recitations a week.

The fourth year's course is devoted to the translation of Livy at sight, to Latin composition with especial study of style, to the fluent and rapid rendering of the entire Æneid with parallel study of other epics, and to the study of comparative grammar. Students are not admitted to this course unless they have achieved honors in the preceding year.

The final examinations in all the courses, which occur three times each year, include Latin passages not previously read by the class.

GRADUATE INSTRUCTION.

Graduate instruction is offered, free of charge for tuition, to graduates of this University, or of other institutions of similar grade, who desire special preparation for teaching Latin or such advanced literary culture as is demanded for the successful pursuit of the literary professions. Courses are offered in history, philosophy, law, literature, theology and sociology. The work of the student is performed under the guidance of the professor, and it demands original study and research. Theses are required, embodying the results of this work.

THE GREEK LANGUAGE AND LITERATURE.

Professor Alexander.

FIRST YEAR.

Freshman Class—Four recitations a week.

Lucian: *Dialogues*; or, Xenophon: *Symposium*; Review of important grammatical forms and principles (Hadley-Allen or Goodwin); Selections from Herodotus, books I and II; Homer: four books of the *Iliad*; Prose Composition once a week; History of Greece; Reading at sight throughout the year.

SECOND YEAR.

Sophomore Class—Three recitations a week.

Demosthenes: three *Philippics*; Euripides: *Iphigenia among the Taurians*; Aristophanes: *Plutus*; Prose Composition, based on the texts read; Greek History, Literature and Antiquities, with lectures; Reading at sight.

THIRD YEAR.

Junior Class—Two recitations a week.

Plato: *Protagoras*; Plutarch: *Lives of Themistocles and Pericles*; Æschylus: *Prometheus Bound*; Reading at sight.

ELECTIVE.

Senior Class—Three recitations a week.

Homer: rapid reading of the *Iliad*, books I—XXIV; Greek Seminary, once a week, for the discussion of assigned topics; Modern Greek: a short course, devoted chiefly to the reading of Greek newspapers.

Candidates for the degree of Bachelor of Arts are required to take the courses in Greek through the third year. Students who complete the elective course of the fourth year, with a grade of ninety, are entitled to the Greek Diploma.

Once a week from October to May the Professor of Greek will translate the works of some Greek author to those seniors and graduates who may wish to be present. These readings will be given in the Professor's study from seven to eight o'clock P. M. During the coming year the whole of Homer's *Odyssey* will be translated, one book at each sitting.

The instruction of graduates is arranged, so far as possible, to meet the needs of each student. Usually the writings of some one author, or special departments of literature, are continuously studied. Seminary methods are adopted. For 1891-'92 the following courses are offered:

I. A critical survey of the Greek Drama, with the reading of representative tragedies and comedies and a study of the *Poetics* of Aristotle.

II. Educational theories of Greek writers: Aristotle, Plato and Plutarch.

III. Greek Archæology, in connection with Pausanias's *Description of Greece* and recent works on the subject.

IV. Greek Oratory, with the *Rhetoric* of Aristotle and the critical reading of Attic Orators.

V. Greek Philosophy: the *Republic* and selected *Dialogues* of Plato.

VI. Philology and Comparative Grammar of Greek.

ENGLISH LANGUAGE AND LITERATURE.

(INCLUDING ANGLO-SAXON.)

Professor Hume.

UNDER-GRADUATE CLASSES.

FIRST YEAR.

Three hours a week.

Practical Rhetoric (Genung). Rhetorical Analysis. Brooke's Literature. Nineteenth Century English and American Literature. Eighteenth Century Literature (Swift, Pope, The Essayists). Etymology. Skeat's Concise Dictionary. Parallel Reading and Two Themes.

SECOND YEAR.

One hour a week.

Historical Grammar (Sweet and Lounsbury). The English of Shakspeare). (Craik's Julius Cæsar). Studies in the Diction of the English Bible. Longer English Poems (Hales).

THIRD YEAR.

Two hours a week.

Hand-book of Poetics (Gummere). Chaucer's Prologue. Spenser's Faerie Queene. Dowden's Shakspeare Manual, with references to Hudson and Corson. Henry the Fourth and Henry the Fifth, Richard the Third. Parallel Reading in Malory's Morte d'Arthur and Tennyson's Idyls of the King, with Professor's Guide to Study and Written Exercises.

FOURTH YEAR.

ESSAYS AND ORATIONS—*One hour a week.*

Lectures on Methods of Composition and History of Oratory. Minto's English Prose. Garnett's Selections. Essays of Bacon, Macaulay, Carlyle, Matthew Arnold, Emerson. Select Orations, from Burke to Gladstone. Practice in Writing Analyses and Criticisms.

LITERATURE—*Two hours a week. (Elective).*

Taine's History of Literature. Two Comedies, with lectures on Sources and Characters and Study of Versification. Hamlet, with printed Guide to Study. Milton (Browne's Edition). Wordsworth and Robert Browning. Lectures on the History of the Language, on English Fiction.

ANGLO-SAXON.

Two hours a week. (Elective).

1. Anglo-Saxon Reader (Sweet). Gospel of John (Corson). Selections, from Alfred to the Ormulum. Earle's English Philology.
2. Comparative Grammar. Robert of Gloucester. Ayenbit of Inwyrt. Piers Plowman (Skeat's Edition). Wyclifite Scriptures. Judith (Cook's Edition). Skeat's Principles of Etymology.

POST-GRADUATE COURSE.

Selections may be made from subjects or groups announced by the Professor. The following courses have been studied during the past four sessions:

1. Rise and Progress of the Drama in England with comparative studies in Foreign Literature. The Classical and Romantic Schools. Chester Mysteries (New Shakspeare's Society Edition). York Plays (Toulmin Smith's Edition). Roister Doister (Arber). Comedy, from Elizabeth to the Restoration. Tragedy, from Gorboduc to Ford. Chronicle Plays. Pastorals and Masques in Ben Jonson, Fletcher, Milton. Dryden and French Influence. Readings in Schlegel, Ward, Symonds.
2. Beowulf (Harrison and Sharp's Edition). Exodus and Daniel (Hunt's Edition). Norse Mythology. Comparative Philology.
3. History of Poetry, from Spenser to Tennyson. Sidney's Defence of Poesy (Cook). Allegory (Sackville's Mirror for Magistrates and Spenser). The Sonnet, from Surrey to Mrs. Browning with special studies in Shakspeare's Sonnets. Milton, with readings in Masson's Life and the Areopagitica. Readings in Sir Thomas Browne and Burton. The Metaphysical Poets. The Didactic and Correct School (Dryden, Pope). Gosse's From Shakspeare to Pope reviewed. Ballads, Romantic and Narrative Poetry (Cowper, Burns, Scott). Nature and Man, from Byron and Wordsworth to Tennyson and Browning.

MODERN LANGUAGES.

Professor Toy.

The subjects taught in this department are the French and German languages and their literatures.

UNDER-GRADUATE CLASSES.

I. FRENCH.

1. *Three times a week throughout the year.*

Chardenal's First French Course; Whitney's Brief French Grammar; Super's Reader; Molière, *L'Avare*. Prose composition once a week. Heath's French Dictionary.

2. *Three times a week throughout the year.*

Edgren's French Grammar; Halévy, *L'Abbé Constantin*; Molière, *Le Misanthrope*; Corneille, *Le Cid*. Prose Composition once a week, (Grandgent). French literature. Reading at sight.

3. (*Elective*). *Twice a week throughout the year.*

Critical study of Victor Hugo. Written theses, supplemented by lectures.

II. GERMAN.

1. *Three times a week throughout the year.*

Whitney's Brief German Grammar; Brandt's Reader; Schiller, *Der Neffe als Onkel*. Prose composition once a week. Heath's, Whitney's or Thieme's Dictionary.

2. *Three times a week throughout the year.*

Schiller, *Wilhelm Tell*; Freytag, *Die Journalisten*; Goethe, *Knabenjahre*; Whitney's Grammar. Prose composition once a week (Harris). German literature. Sight reading.

3. (*Elective*). *Twice a week throughout the year.*

Critical study of Goethe. Written theses. Lectures on special points.

In each language Class 1 is designed to give an *exact acquaintance* with the grammatical forms and the leading principles of syntax.

The instruction is given partly by grammatical textbooks and exercises, written and oral, but chiefly by a careful study of good prose. The class reads as widely as possible. At the end of the year the student is expected to translate simple prose at sight.

In Class 2 some difficult points of grammar are discussed along with the weekly exercises, but most of the time is given to the reading and literary criticism of standard writers, classic and modern.

In Class 3 a certain period of literature is studied critically. The instruction is arranged to help those who intend to become teachers.

In each class a course of private reading is assigned.

POST-GRADUATE WORK.

Subjects for post-graduate work will be assigned upon application. Candidates from this University must have completed successfully the Elective Class (No. 3) in the language chosen. The work may be either of a literary or philological character, and must in all cases be done by original investigation. Outlines of work will be assigned, as nearly as possible, according to the ultimate aims of the student.

MENTAL AND MORAL SCIENCE.

Professor Williams.

The work in Philosophy extends through three years. Courses 1 and 2 are required of candidates for the A. B. degree. Course 1 is required of candidates for the Ph. B. degree. Candidates for this degree may elect Course 1 in their Sophomore year, and will, in this event, complete the three-years' scheme offered.

COURSES.

1. LOGIC AND PSYCHOLOGY.

The text-books used this year are Fowler's Inductive Logic and Sully's Outlines of Psychology.

Two hours a week through the year.

2. THE THEORY OF KNOWLEDGE.

Text-books this year: Harris' Philosophical Basis of Theism.

Three hours a week through the year—two hours with the book and one hour with lectures.

3. THE THEORY OF KNOWLEDGE.

Course 2 deals with the objects of knowledge; Course 3 aims to push further this enquiry, to investigate the process by which these objects are reached, to enquire into the validity of this process, and to bring the mental process close to the facts of life.

Text-books: The advanced Psychologies and Kant's *Kritik der reinen Vernunft*.

Two hours a week through the year.

In addition to the work of the class-room, each student will make a more extended study of some question pertaining to the general subject and incorporate the results of his investigations in a thesis. It is expected that the thesis will show independent work on the part of the writer. Emphasis is put upon this part of the work as being the most valuable to the student and most interesting to the Professor. Large credit is given to any good work the thesis shows. Thesis-writing offers the fullest opportunities for the display of mental power.

Such subjects as the following were investigated by members of the present classes: "The Doctrine of Causality;" "The Origin of the Time-notion;" "The Origin of the Space-notion;" "The Unknown Cause;" "Self-consciousness;" "The Empirical Theory of Knowledge;" "Spencer's Doctrine of the Unknowable."

The students and the Professor are greatly hindered in their investigations through lack of books. It is hoped that before the end of another college year, some friend will establish a library fund for the purchasing of all standard books upon philosophical and sociological subjects.

HISTORY.

Dr. Battle.

The instruction in History will include a course in general history, a course in special history and a course in historical research.

The instruction in general history will be given by textbooks, supplemented by lectures. The class will recite three times a week for a year. The object of the course is to afford a concise logical view of the great stream of human events and the evolution of races and nations.

The instruction in special history will be given by textbooks, by lectures and by studying original materials. It will include such subjects as, "The Breaking up of the Roman Empire"; "The Formation and Growth of England"; "English Constitutional History"; "The Reformation", &c., &c. There are three recitations a week.

The course in historical research will include study and research in American history, and especially the history of North Carolina. The University Library possesses a large amount of valuable material for this purpose. Theses embodying the results of work done are required of all who take this course. The class meets twice a week.

A prize of books relating to North Carolina, to the value of \$15, is offered by Mr. John S. Hill, of Duplin, of the class of 1889, for the best thesis on some subject of North Carolina history to be prescribed by the Professor.

SCIENTIFIC DEPARTMENT.

FRANCIS PRESTON VENABLE, PH. D., F. C. S.,
Professor of General and Analytical Chemistry.

JOSEPH AUSTIN HOLMES, B. S., F. G. S. A.,
Professor of Geology and Natural History.

JOSHUA WALKER GORE, C. E.,
Professor of Natural Philosophy.

WILLIAM CAIN., C. E.,
Professor of Mathematics and Engineering.

GEORGE H. CLAFLIN, C. E.,
Assistant in Mathematics and Engineering.

HUGH S. MILLER,
Assistant in Chemical Laboratory.

JOSEPH VOLNEY LEWIS,
Instructor in Biology.

OUTLINE OF INSTRUCTION.

CHEMISTRY.

Professor Venable and Mr. Miller.

UNDER-GRADUATE CLASSES.

GENERAL CHEMISTRY.

Three lectures a week through the year.

The facts and general principles of Chemistry are presented in the following order:

1. Chemical Physics.
2. The Chemistry of the Non-metals and Metals.
3. Organic Chemistry.

Instruction is given mainly by lectures, and these are illustrated by numerous experiments. During the first term the class spends one hour per week in the laboratory in experiments upon the substances described in the lectures. The following reference-books are recommended: Richter's Chemistry; Watts' Chemistry; Remsen's Inorganic and Organic Chemistry; Roscoe & Schorlemmer's Treatise on Chemistry.

INDUSTRIAL CHEMISTRY.

Three lectures a week through the year.

A knowledge of General Chemistry is a pre-requisite to this course. The applications of Chemistry to the arts and manufactures will be considered under this heading.

The subjects treated of will be: the extraction of the useful metals from their ores, the manufacture of glass, porcelain and earthenware; foods, their production, preparation and adulteration; clothing, printing, dyeing, bleaching, tanning; building materials; manufacture of candles, soap, ink, matches, applications of chemistry to agriculture, &c.

REFERENCE-BOOKS:—Wagner's Chemical Technology, Ure's Dictionary of Arts and Manufactures.

INDUSTRIAL MUSEUM.—Many specimens of crude and manufactured products have already been gathered for purposes of class illustration, and continued additions are being made to the collection.

ANALYTICAL CHEMISTRY.

The aim in this study will be to prepare students to become Analytical Chemists, Teachers of Chemistry, or Druggists. There are two classes.

QUALITATIVE ANALYSIS.

Six hours a week through the year.

Fall term—Blow-pipe Analysis. Spring term—Wet Analysis.

QUANTITATIVE ANALYSIS.

Elective. Six hours a week through the year.

Full instruction is given in practical chemistry, including the analysis of ores, soils, manures, technical products, &c. Students are also encouraged to undertake original researches.

A deposit of ten dollars for the Qualitative Analysis and fifteen dollars for the Quantitative Analysis is required of each student to defray the cost of apparatus and chemicals.

The new laboratories are provided with water, gas and all other appliances for the prosecution of scientific work.

POST-GRADUATE CLASSES.

The study of Theoretical Chemistry will be pursued with such text-books as Remsen, Wurtz and Meyer. The student will be required to prepare lists of chemical compounds, tabulate physical constants and make bibliographies of special chemical substances, using for the purpose chemical dictionaries and the various chemical periodicals.

Advanced and post-graduate work in the Laboratory will be assigned in inorganic or organic analysis to any student desiring it.

GEOLOGY AND NATURAL HISTORY.

Professor Holmes and Mr. Lewis.

I. GEOLOGY.

UNDER-GRADUATE CLASSES.

The instruction in this subject includes the following:

1. GENERAL GEOLOGY.

Three lectures per week during the second term.

The lectures are accompanied by occasional field excursions and work in the laboratory.

2. PRACTICAL GEOLOGY.

(Elective). Three hours per week throughout the year or during either term.

During the first term the time is devoted to Field Geology and Lithology.

During the second term the nature of the work varies according to circumstances.

To this class are admitted students who have passed satisfactorily the examination in General Geology.

TEXT-BOOKS AND BOOKS OF REFERENCE:—Leconte's Elements of Geology, Dana's Manual of Geology, Geikie's Text-Book of Geology, Geikie's Field Geology, Williams' Economic Geology, Reports of U. S. Geological Survey, North Carolina and other State Surveys.

3. MINERALOGY.

Three hours per week through the year.

Fall term—Crystallography and Descriptive Mineralogy. Spring term—Descriptive and Determinative Mineralogy. *Text-books*: Dana's Manual of Mineralogy and Petrography and Cornwall's Blow-pipe Analysis. *Reference-book*: Dana's System of Mineralogy.

Only those who have been approved in General Chemistry can enter this class.

The laboratory for Geology and Mineralogy is supplied with large collections of rocks and minerals, including microscopic sections, models, charts, microscopes and various instruments for laboratory and field work.

POST-GRADUATE WORK.

Post-graduate courses have been arranged as follows:

1. In General Geology, including the general principles of Dynamical, Structural and Historical Geology.

2. Economic Geology, in which special attention is given to the Geology of North Carolina.

3. Lithology and Field Geology, including special study of rocks, and geological field work about Chapel Hill and in other sections of the State during summer vacation.

Text-books and details of courses will be given as these courses are assigned.

II. BOTANY.

UNDER-GRADUATE CLASSES.

The following courses are offered:

I. ELEMENTS OF BOTANY.

Three lectures per week during the latter half of the second term.

This is designed as an elementary course for the general student, and as an introductory course for students intending to do advanced work in Botany.

2. SYSTEMATIC AND APPLIED BOTANY.

The work in this class consists largely of the systematic study of the flowering plants of the Chapel Hill region, in the laboratory and in the field. Students who desire to do so may collect, identify and preserve specimens of plants at their homes during the summer vacation; and such specimens properly mounted will be counted in the class work for that year.

TEXT-BOOKS AND BOOKS OF REFERENCE:—Gray's Lessons and Manual of Botany, Gray's Botanical Text-books, Chapman's Southern Flora, Sach's Text-book, Bessey's Botany, and others of a special character.

The laboratory contains a small herbarium and collections of native woods and other vegetable products, microscopes and other instruments.

3. HYGIENE.

A course of five lectures will be given at the beginning of the first term relating to the care of the general health.

4. PHYSIOLOGY.

Three lectures per week during the first term.

Special attention will be given to the comparative physiology of respiration and circulation. The lectures will be illustrated by microscopic exhibitions of some of the lower forms of animal life, the tissues and blood of higher animals, circulation of blood in the web of a frog's foot, and by painless experiments upon animals.

5. GENERAL ZOOLOGY.

Three lectures per week during the first half of the second term.

A part of the time will be devoted to the study of representative forms by the student himself.

6. GENERAL BIOLOGY.

In this course facilities will be offered for practical work in the dissection of animals, illustrating and amplifying the studies in physiology and general zoology. After becoming familiar with methods in the preliminary work, the student may elect, upon consultation with the Professor in charge, a line of work more suited to his taste and needs.

During the second term of this study, the student may, with the Professor's permission, devote special attention to ORNITHOLOGY, or ENTOMOLOGY. This work will be conducted by lectures, laboratory and field work.

Special arrangements will be made with students wishing to collect specimens for the museum during the summer vacation, so that the work will count in one of their courses.

Upon application the professor in charge will give further information.

TEXT-BOOKS AND BOOKS OF REFERENCE:—Martin's Human Body; Flint's Text-book of Human Physiology; Yeo's Manual of Physiology; Parke's Hygiene; Dalton's Physiology; French's Butterflies of the Eastern United States; Saunders' Insects Injurious to Fruits; Harris' Insects Injurious to Vegetation; Packard's Guide to the Study of Insects; Claus' Text-book of Zoology; Brook's Hand-book of Invertebrate Zoology, Huxley's Anatomy of Invertebrate Animals; Huxley's Anatomy of Vertebrate Animals; Wilson's American Ornithology; Coues' Key to Birds of North America; and others.

The laboratory contains a large and valuable collection of insects and over one hundred different kinds of birds, also many animals.

POST-GRADUATE WORK.

Post-graduate courses in Zoology, Botany and General Biology are arranged on application.

NATURAL PHILOSOPHY.

Professor Gore.

UNDER-GRADUATE CLASSES.

PHYSICS, ELEMENTARY COURSE.

Two hours a week through the year.

This course treats, in a brief way, the more important parts of the whole subject of Physics. It is included in the School of Medicine.

TEXT-BOOK:—Stewart's Physics.

PHYSICS.

The subject is treated in the following order: Mechanics of Solids; Liquids and Gases; Heat; Electricity; Magnetism; Sound and Light. The class meets three times a week for recitation or lecture. The course is fully illustrated by experiments, which constitute an important feature of the instruction.

The class is divided into sets of three students each for experimental laboratory practice. The time devoted to this work will average one hour and a quarter per week.

A fee of two dollars per term is required of each member of the class to defray cost of materials used.

ASTRONOMY.

Three hours a week during the second term.

The subject is pursued as a branch of liberal education, and hence treats of Spherical, Practical and Theoretical Astronomy, and Cosmical Physics. An elementary knowledge of Analytic Geometry is required for admission to the class.

TEXT-BOOK:—Young's General Astronomy.

PROJECTION DRAWING.

(Elective). Three hours a week during the first term.

Descriptive Geometry, Orthogonal and Oblique Projections, Projections of Shades and Shadows, Working Drawing of Machines and Detail Drawings, Linear Perspective.

ELECTRICAL ENGINEERING.

(Elective). Five hours a week through the year.

This course will be principally laboratory work, and consist of Electrical Measurements, Theory and Experimental Study of Dynamo Machines, Electric Motors, Electric Lighting, Storage Batteries, Measurements in Magnetism, Telephone and Telegraph Lines and Cables.

A fee of five dollars per term is required of each student to defray cost of materials used.

ADVANCED OR POST-GRADUATE CLASS.

PHYSICS.—Students will be admitted to this class who have completed the junior class or its equivalent. The instruction will include: Method of Least Squares, Physical Manipulation, Physical Measurements with Instruments of Precision, Reduction of Observations.

PHYSICAL LABORATORY.—The rooms of the Physical Department occupy the first floor of the New West Building. The equipment of the department comprises many fine instruments of precision, especially for Electrical Measurements. The laboratory is well provided with apparatus for illustrating the general course in Physics.

A work-shop, attached to the laboratory, is provided with a steam engine, lathe for wood and metal, and the necessary tools and material for repairing and making apparatus. An electric light plant has been installed, chiefly for instruction in electrical engineering.

MATHEMATICS AND ENGINEERING.

Professor Cain and Mr. Claflin.

I. MATHEMATICS.

UNDER-GRADUATE CLASSES.

FIRST YEAR.

Four recitations a week.

In the first term the student finishes the study of Algebra, discussing Quadratic Equations, Arithmetical and Geometrical Progression, the Binomial Theorem and various other series, Permutations, Combinations, Logarithms, &c.

In the second term the study of Geometry is taken up and completed. The course embraces both Plane and Solid Geometry—as much as is included in Wentworth's or Chauvenet's text-books on the subject.

TEXT-BOOKS:—Newcomb's College Algebra, Wentworth's College Algebra, or Taylor's College Algebra, Wentworth's Geometry.

SECOND YEAR.

Three recitations a week.

Use of Tables of Logarithms, Plane and Spherical Trigonometry, with applications, Analytic Geometry.

TEXT-BOOKS:—Wentworth's Trigonometry and Tables, Bowser's Analytic Geometry.

THIRD YEAR.

(Elective). Four recitations a week.

Solid Analytic Geometry, Differential and Integral Calculus, Analytic Mechanics.

TEXT-BOOKS:—Bowser's Analytic Geometry, Taylor's Calculus, Bowser's Analytic Mechanics

FOURTH YEAR.

(Elective). Three recitations a week.

Mechanics of Engineering, as under Engineering course below.

II. ENGINEERING.

UNDER-GRADUATE CLASSES.

Candidates for this course must have accomplished the first and second years of either the Scientific, Philosophical or Classical Courses.

THIRD YEAR.

Four recitations a week.

Solid Analytic Geometry, Differential and Integral Calculus, Analytic Mechanics.

TEXT-BOOKS:—Bowser's Analytic Geometry, Taylor's Calculus, Bowser's Analytic Mechanics.

DRAWING AND SURVEYING.

A course in Topographical and Mechanical Drawing will be offered the entire year.

The class will meet the Professor twice a week.

Surveying will be taught the second term, three hours a week. Two hours of field work can replace one hour of class-room work, at the option of the Professor.

FOURTH YEAR.

Three recitations a week.

Mechanics of Engineering, including Hydro-mechanics, Strength of Materials, Stresses in Bridges and Roofs, and stability of structures generally, including Arches, Dams and Retaining Walls.

TEXT-BOOKS AND BOOKS OF REFERENCE:—Bowser's Hydro mechanics, DuBois's Strains, &c.; Merriman's Works on Bridges and Roofs, Strength of Materials and Hydraulics; Cain's Arches, Bridges and Retaining Walls; Lanza's Applied Mechanics; Rankine's Engineering; Weisbach's Mechanics of Engineering.

DRAWING AND SURVEYING.

Two recitations a week.

A course in Mechanical Drawing will extend throughout the entire year.

Higher Surveying (elective) will be taught the entire year. It includes field-work, laying out railways, &c., earth-work computation and taking topography.

TEXT-BOOKS:—Gillespie's Surveying, Searle's Field Engineering, Wellington's Earth-work Computation, Smith's Topographical Drawing.

POST-GRADUATE CLASSES.

Post-graduate instruction in Civil Engineering consists in courses of reading, leading to detailed practical applications of theory of Structures, extended treatment of Graphical Statics and its applications, Economical Theory of Railway Location, Masonry Construction, Stone Cutting and Practical Design generally. This course will cover one or two years, and will be suited to the needs of the student.

WORKS RECOMMENDED:—Pocket-books of various Iron Companies, Hroi's Plate Girder Construction, Waddel's Designing of Highway Bridges, Burr's Bridges, Levy's Statique Graphique, Cain's Solid and Braced Elastic Arches, Baker's Masonry Construction, Fanning's Water Supply Engineering, Wellington's Economical Theory of the Location of Railways. Latham's Sanitary Engineering, Warren's Stone Cutting, Weisbach's Mechanics of Engineering.

PREPARATORY SCHOOL OF MEDICINE.

RICHARD H. WHITEHEAD, M. D.,
Professor of Anatomy, Physiology and Materia Medica.

F. P. VENABLE, PH. D.,
Professor of Chemistry.

JOSEPH A. HOLMES, B. S.,
Professor of Botany.

J. W. GORE, C. E.,
Professor of Physics.

The Medical Department is designed to be preparatory to the diploma-granting medical colleges. It will aim to give the student a thorough course of instruction in those subjects which constitute the foundation of medical science, a knowledge of which is essential to the physician, both in his study and treatment of disease, and yet which are too often neglected. Its connection with a well-equipped University makes it far superior to a year's reading under a preceptor, and it is believed that it will compare favorably with the first-year course of any of our medical colleges. Such a school will hold an important position in the system of higher medical education so earnestly desired by the medical profession, while it will lighten the subsequent labors of the student by enabling him to study with greater intelligence and success the higher branches of medicine.

The course lasts one session of nine months, and comprises instruction in Chemistry, Physics, Natural History, Anatomy, Physiology and Histology and Materia Medica.

ANATOMY.

Believing that only Nature's drawings are true, the instruction in this department will be eminently practical. The statements made will be proved by actual demonstration upon the cadaver, bones and prepared specimens, and the student will be required to verify these statements for himself by dissecting and studying the dissected cadaver. The student will be required to stand certain practical examinations upon the bones and cadaver. Each student is earnestly requested to bring with him, if practicable, a disarticulated skeleton. The class will meet daily for two hours, and a portion of the time will be devoted to quizzing upon the lectures of the preceding day.

PHYSIOLOGY AND HISTOLOGY.

After the course in Anatomy is completed, the study of Physiology and Histology will be begun. The instruction will be by means of a thorough course of lectures and by rigid daily examinations, especial attention being given to the physiology of the digestive and nervous systems.

Histology will be illustrated by means of the microscope and sections of the tissues, thus teaching the use of the microscope and enabling the student to obtain a correct knowledge of the microscopical anatomy of the various tissues. This class also meets daily for two hours.

MATERIA MEDICA.

This subject will be taken up last, after the student has obtained sufficient knowledge of the other branches. It includes the study of the chemical and physical properties of drugs and especially of the physiological action. The instruction will be by means of daily lectures and examinations.

Written examinations will be held upon the different branches in the order of their completion.

TEXT-BOOKS:—Gray's Anatomy, Yeo's Manual of Physiology, Klein's Elements of Histology, H. C. Wood's Therapeutics.

TUITION for the above-mentioned classes, \$75.00.

The courses in Physics, Botany and Chemistry are described elsewhere in this Catalogue, and to these the student is referred. For these courses the ordinary University charges are made, viz., \$4.00 per annum for each hour of recitation or lecture.

Every student is required to pay the University Registration fee of \$5.00 per term.

PHARMACY.

A course in Pharmacy is offered by the University to all students who may desire to become professional druggists. It is designed in this course to give thorough instruction in those sciences in which the principles of pharmacy rest.

The following classes constitute the course in pharmacy:

BOTANY.

Three lectures a week for six weeks.

GENERAL CHEMISTRY.

Three lectures a week for two terms.

ANALYTICAL CHEMISTRY.

Three hours a week for two terms.

MATERIA MEDICA.

(For number of hours, see School of Medicine.)

PHYSIOLOGY.

Three hours a week for one term.

PREPARATION OF DRUGS AND TOXICOLOGY.

Two hours a week for two terms.

The course lasts for two terms, or one session, and the total expenses for tuition and laboratory fees will be \$75.00.

SCHOOL OF LAW.

HON. KEMP P. BATTLE, LL.D.,
President.

HON. JOHN MANNING, LL.D.,
Professor.

This department contains two classes:

1. The Independent Class.
2. The Junior Class.

While particular attention is directed to preparation for obtaining license to practice law in the courts of this State, the student will be invited to pursue a more extended course, and to obtain a broad and liberal knowledge of the law.

Wherever the law of North Carolina differs from that enunciated in the text-books, information is given of such difference and the reason therefor. Lectures are given from time to time on such subjects as have been greatly modified by our statutes, such as Marriage, Descent, Wills, Limitations, Exemptions from Executions, &c.

A Moot Court for the discussion of law questions, and for instruction in the practice of the Courts is regularly held by the Professor.

THE PLAN OF STUDIES comprises: (A) The course prescribed by the Supreme Court of the State for applicants for license to practice. (B) A course of study for those desiring to compete for the degree of Bachelor of Laws.

TEXT-BOOKS:—(A) Blackstone's Commentaries, Washburn on Real Property, Schouler on Executors, Stephen on Pleading, Chitty's Pleading, Adams or Bispham's Equity, 1st Greenleaf on Evidence, Smith on Contracts, Addison or Bigelow on Torts, Constitution of the United States and of North Carolina, Code of North Carolina, particularly the

Code of Civil Procedure. (B) Pollock on Contracts, Pierce on American Railroad Law, Angell & Ames or Dillon on Corporations, Pomeroy's Equity Jurisprudence, Cooley's Constitutional Limitations, Wharton's Criminal Law, Best's Principles of Evidence, Cooley on Taxation, and May on Insurance.

To complete the entire course will ordinarily require two years, at the end of which the degree of Bachelor of Laws will be conferred on such students as shall pass an approved examination.

Those joining class (A) during the course, standing an approved examination on the books already read, or their equivalents, will be allowed to compete for this degree.

The advantages offered by this school are: 1. The use of the University and Society libraries, amounting in the aggregate to over twenty-five thousand volumes. 2. The training to be derived from participation in the debates and other exercises of the two literary societies. 3. The opportunity afforded, on easy terms, of attending the lectures of the President, and such other lectures as they may desire. 4. Freedom from temptation and the stimulant to study found in the University regulations, and in the atmosphere of study and of books pervading Chapel Hill.

TERMS, PAYABLE IN ADVANCE: For both courses, "A" and "B," \$150. For the Independent Class per session of forty weeks, five recitations per week, \$90. For the Junior Class per session of forty weeks, two recitations per week, \$40.

The Junior Class is intended for young men attending other classes in the University.

SUMMER COURSE.

The summer course will begin July first and continue until the last Monday in September. Two classes, Senior and Junior. Fees for Senior \$30, for Junior \$30, for both \$50.

Students will be received at any time and for any period. In such cases reasonable deduction of tuition fees will be made.

The sessions and vacations of this department (except those of the summer course) are the same as those of the University.

DONATIONS TO THE UNIVERSITY LIBRARY AND READING-ROOM.

By Capt. Francis T. Bryan, United States Army, Class of 1842, St. Louis, Mo., a valuable collection of 500 volumes. It includes books on a variety of subjects—engineering, surveying, drawing, fortifications, casting of cannon, bridge-building, navigation, steam engines, mathematics, ship-building, architecture, biography, classical literature, cavalry, both ancient and modern military tactics, field accoutrements, and army discipline. All these volumes are in good condition—many almost new. Some are old and rare, but well preserved. They were gathered from the countries of both hemispheres.

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Number of volumes added during 1890-'91	1,200
Number in Library previously reported	34,000
Total	35,200

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